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(54) INJECTION MOLDING  
METHOD OF  
PHOTOPOLYMERIZATION  
RESIN AND INJECTION  
MOLDING APPARATUS  
THEREOF

(57) Abstract:

PURPOSE: To manufacture  
efficiently a resin molding having  
excellent dimensional accuracy or  
mechanical strength by press-casting  
photopolymerization resin into  
cavities formed in a male and female  
mold made up of a transparent

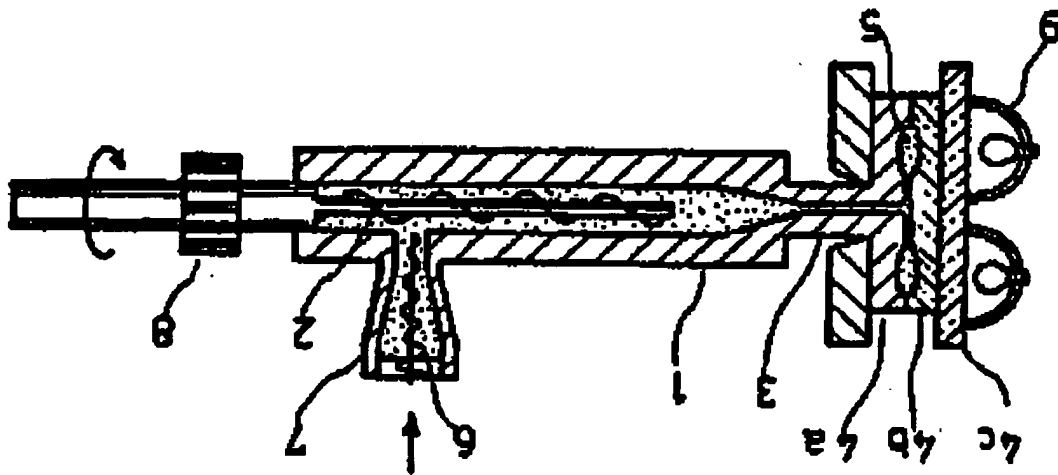
material, and introducing and irradiating photopolymerization irradiating light into the cavity from the outside.

**CONSTITUTION:** Photosetting resin 6 is inputted into a photosetting resin kneading supplier 7, and then press-casted into a cavity 5 formed in a fixed side molding mole 4a and movable side transparent molding mold 4b through a cylinder 1 and nozzle 3 by means of a screw 2. Next, visible light produced by halogen lamps is irradiated to the photopolymerization resin 6 within the cavity 5 through a reinforced glass 4c and movable transparent molding mold 4b, and the movable side molding mold 4b is withdrawn for opening the molding mold, and thus a polymerized and cured photosetting resin molding is taken out thereof. By employing photopolymerization resin, a molding can be obtained, which can be injection-molded at low temperature and has excellent dimensional accuracy. And, since a heater in the screw and a cooling pipe in the mold are not required, the structure of the molding apparatus can be simple and small in size.

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